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uLeuMetile LeuLeuLeuV alLeuSerLe uTrpLeuPro LeuGlyAlaG lyAsnSerLe uAlaThrGlu AsnArgPheVal euSerArgPro TCTTAAGCCG TGCTCCGCGC CGCGGGTCGC GTCCGTCTCG CGACAGCGTA GGGCCCGCAG GTGGGCGGTA CCCCGAGAGG GTGGCTGCCA CTTGGAGCAG GAAACTCCCT TGCCACAGAG AACAGGTTTG ATTCGTCCGG GGGCTCTCC tGlyLeuSer TAAGCAGGCC GCTGTCGCAT CCCGGGCGTC CACCCGCCAT CTTTGAGGGA ACGGTGTCTC TGGAGGTCAA ThrSerSerL ACCTCCAGTT GCAGGTGCCA sThrGlnAla ArgLysC ysGluAlaAs nProAlaCys LysAlaAlaT yrGlnHisLe uGlySerCys GGGCTCCTGC CCCGAGGACG CCATGTCTGC AGACTGCCTA GAGGCAGCAG AACAACTCAG GAACAGCTCT CTGATAGACT GACTATCTGA GAACCTCGTC TCCCGCTTGC AAGGCTGCCT ACCAGCACCT AGGCCGAACG TTCCGACGGA TGGTCGTGGA CTTGTCGAGA CTCGAGGCCA AGAATTCGGC ACGAGGCGCG GCGCCCAGCG CAGGCAGAGC CACCGACGGT TTGTTGAGTC TGCTGTCGTT GACGATGACC ACGACAGCAA CTCCGTCGTC CTGCTACTGG GCGAGGCTAA CGCTCCGATT TCTGACGGAT GCTGATGATC CGACTACTAG AGAAAGAAAT TCTTTCTTTA GGTACAGACG GAGCTCCGGT CTGGAGGTGA TACCCAGGCC GACCTCCACT rgProProLe ATGGGTCCGG GAGGAGTCTG CTCCTCAGAC ACTTGTCGAC TGGAGCCCGC TrpSerProA TGAACAGCTG AsnSerCy ACCTCGGGCG

GAATTTGGCC

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sArgArgMet CGTCCACGGT GluGluSerA laMetSerAl aAspCysLeu GluAlaAlaG luGlnLeuAr gAsnSerSer LeuIleAspC ysArgCysHi GCTGCCCTTA LeuProLeu CGACGGGAAT 301 72

euAspValSe rProTyrGlu AspThrValThr GACACAGTGA TGGATGTCTC ACCCTATGAA ACCTGGCAAG TGGGACGGGC TTCGGAACCA CTGATGCTCA ACCTACAGAG TGGGATACTT CTACCTGTCT GGACATTTAT TGGACCGTTC ACCCTGCCCG AAGCCTTGGT GACTACGAGT gSerLeuGly AspTyrGluL TrpThrValH isProAlaAr CCTGTAAATA laThrCysLe uAspIleTyr GATGGACAGA AAGCACCAAG LysHisGlnA TTCGTGGTTC 105 401

GACTCGGACC TCTGCCTCAA ATTTGCTATG CTGTGTACTC GACACATGAG OTrpLysMet AsnLeuSerL ysLeuAsnMe tLeuLysPro AspSerAspL euCysLeuLy sPheAlaMet LeuCysThrL AGACGGAGTT TAAACGATAC CTGAGCCTGG AGTTGAACAT GCTCAAACCA CGAGTTTGGT TTAGAATCGT TCAACTTGTA CTGGAAAATG AATCTTAGCA GACCTTTTAC GGTCGTTTGG SerLysPr CCAGCAAACC 501 139

TGAGAAGGCA eGluLysAla sLeuCysLeu AlaGlnLeuA rgSerPhePh GCTCCTTCTT CGAGGAAGAA GCCCAGCTGC CGGGTCGACG GCCAGCGCCA CCTCTGCCTA GGAGACGGAT CGGTCGCGGT GlylleArgC ysGlnArgHi GGGATCCGCT CCCTAGGCGA GGCATGCTCA CCGTACGAGT LeuArgLysA laTyrGlyGl uAlaCysSer CCTACGGGGA GGATGCCCCT CTGCGCAAGG GACGCGTTCC GTGTGACCGC CysAspArg CACACTGGCG 601 172

CATCGCCCCC GTAGCGGGGG GGGGAGCGGC GGCGTAACAC CCGCATTGTG CCCCTCGCCG TGCGGGCTGT ACGCCCGACA GTGGTCTTCT CACCAGAAGA TCTGCTGCTG TGTCCCTGTG AGACGACGAC ACAGGGACAC ACGCTCAGGG TGCGAGTCCC GCAGAGTCCC CGTCTCAGGG AlaGluSerH 701

laProGluAs pAlaGlyCys GlyGluArgA rgArgAsnTh rlleAlaPro CysProCysA isAlaGlnGl yLeuLeu

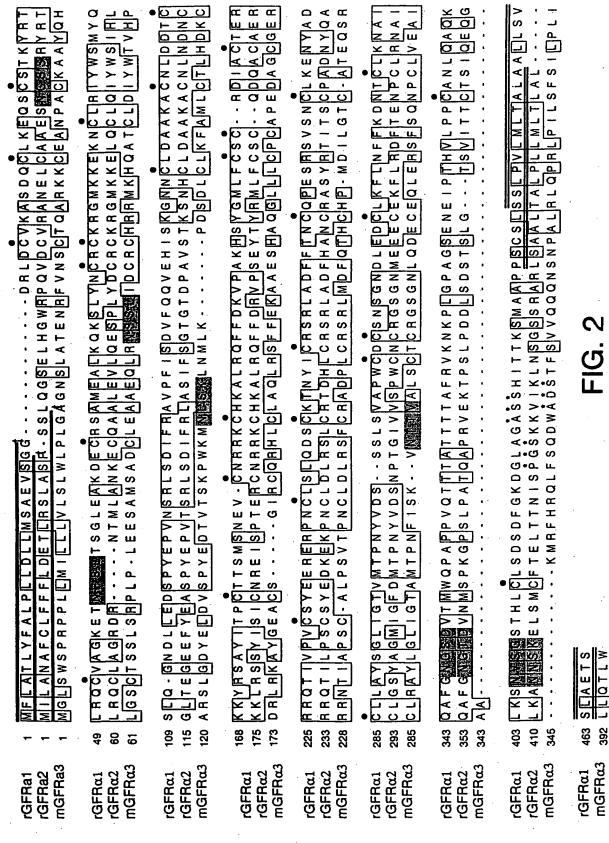
isCysHisPro TGACAGTAGG ACTGTCATCC PheGlnThrH TTCCAGACCC GGACTACCTG AAGGTCTGGG CCTGATGGAC gLeuMetAsp GCAGATCACG eCysArgAla AspProLeuC ysArgSerAr CGTCTAGTGC TGCGGAGCTT CTGCCGTGCG GACCCTTTGT CTGGGAAACA GACGGCACGC CysLeuAspL euArgSerPh ACGCCTCGAA AACCCCCAAT TGCCTGGATC ACGGACCTAG TTGGGGGTTA 1ThrProAsn ACGGAAGACA TGCCTTCTGT ProSerVa 801 239

CATCAGCAAG GTAGTCGTTC CCCCAAACTT CysLeuArgA laTyrLeuGl yLeulleGly ThrAlaMetT hrProAsnPh GGGGTTTGAA ACTGCCATGA TGACGGTACT GCTGATTGGG CGACTAACCC TGTCTGCGGG CATACCTGGG GTATGGACCC ACAGACGCCC GCAGTCCAGA uGlnSerArg CGTCAGGTCT GTGCAACTGA CACGTTGACT ysAlaThrGl MetAspile LeuGlyThrC CTTGGGACTT GAACCCTGAA TATGGACATC ATACCTGTAG 901 272



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1001	GTCAACACTA CAGTTGTGAT	CTGTTGCCTT GACAACGGAA	AAGCTGCACC TTCGACGTGG	TGCCGAGGCA ACGGCTCCGT	GCGGCAACCT ACAGGACGAG CGCCGTTGGA TGTCCTGCTC				CTTCTCCCAG	AACCCCTGCC TTGGGGACGG
305	ValAsnThrT	hrValAlaLe	uSerCysThr	CysArgGlyS	erGlyAsnLe	uGlnAspGlu	CysGluGlnL	euGluArgSe	rPheSerGln	AsnProCysLeu
1101	-		AAGATGCGTT	TCCACAGACA	GCTCTTCTCC		CAGACTCTAC		GTGCAGCAGC	AGAACAGCAA
ć	AG		TTCTACGCAA		CGAGAAGAGG	GTCCTGACCC	GTCTGAGATG	AAAAAGTCAC	CACGTCGTCG	TCTTGTCGTT
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372	GGGACGAGAC	Tricacence ArgleuGlnP	GGICCGAIGG roArgLeuPr	GTAAGAAAGA oIleLeuSer	AAGAGGIAGG PheSerIleL	AAGGGAACIA euProLeuIl	AGACGACGIC eLeuLeuGln	Thereacter	TCGACCCGAA	GGAGICCAG
1301	CTTTGTCCTC	TCCACCACAC	CCAGACTGAT TTGCAGCCTG	TTGCAGCCTG	TGGTGGGAGA	GAACTCGCCA	GCCTGTGGAA	GAAGACGCAG	CGTGCTACAC	AGCAACCCGG
	GAAACAGGAG	AGGTGGTGTG	AGGTGGTGTG GGTCTGACTA AACGTCGGAC	AACGTCGGAC	ACCACCCTCT	CTTGAGCGGT	CGGACACCTT	CTTCTGCGTC	GCACGATGTG	TCGTTGGGCC
1401	1401 AACCAACCAG		GCATTCCGCA GCACATCCCG	TCTGCTCCAG	AAGAGGTCTT AGAAGTGAGG		GCTGTGACCC	GCTGTGACCC TTCCGATCCT GAGCGGCTAG	GAGCGGCTAG	TTTTCAAACC
	TYGGTYGGTC	CGTAAGGCGT	CGTGTAGGGC	AGACGAGGTC	TTCTCCAGAA	TCTTCACTCC	CGACACTGGG	AAGGCTAGGA	CTCGCCGATC	AAAAGTTTGG
1501	TCCCTTGCCC	recerrece engerneer engeneage engeneere	CTGGCTCAGG	CTGCTCCTCC	TTAGGACTTT	TTAGGACTTT GTGGGTCCAG	TTTTGCCTTC	TGTTCTGATG	GTGATTAGCG	GCTCACCTCC
	AGGGAACGGG	GACGAAGGAA	GACCGAGTCC	GACGAGGAGG	AATCCTGAAA	CACCCAGGTC	AAAACGGAAG	ACAAGACTAC	CACTAATCGC	CGAGTGGAGG
1601	AGCGCTTCTT		CCTGTTTCCC AGGACCACCC AGAGGCTAAG	AGAGGCTAAG	GAATCAGTCA	TTCCCTGTTG	CCTTCTCCAG	GAAGGCAGGC	TAAGGGTTCT	GAGGTGACTG
i	TCGCGAAGAA	GGACAAAGGG	TCCTGGTGGG TCTCCGATTC	TCTCCGATTC	CTTAGTCAGT	AAGGGACAAC	GGAAGAGGTC	CTTCCGTCCG	ATTCCCAAGA	CTCCACTGAC
1701	•	TTCCTTTGTG	TGGAAGGCTG	TGGAAGGCTG GTGCTCCAGC	CTCCACGTCC	CTCCACGTCC CTCTGAATGG AAGATAAAAA	AAGATAAAA	CCTGCTGGTG	TCTTGACTGC	TCTGCCAGGC
	TCTTTTACA	AAGGAAACAC		ACCTTCCGAC CACGAGGTCG	GAGGTGCAGG	GAGACTTACC	TTCTATTTT	GGACGACCAC	AGAACTGACG	
1801	AATCCTGAAC	1801 AATCCTGAAC ATTTGGGCAT GAAGAGCTAA AGTCTTTGGG	GAAGAGCTAA	AGTCTTTGGG	TCTTGTTTAA	CTCCTATTAC	TGTCCCAAA	TO THE THE		
	TTAGGACTTG	TAAACCCGTA	CTTCTCGATT	TCAGAAACCC	AGAACAAATT	GAGGATAATG			GGGAACCCAG	TACTAATTTG
1901		ATTTTGACTT AAAAAAAAAA AAAAAAAAAAA TAAAA TAAAACTGAA TTTTTTTTT TTTTTTTTT TTTTTT	AAAAAAAAA AAAAA TTTTTTTT TTTTT	aaaaa Ttttt						

FIG. 1B



hgfra3 ngfra3	1 MVRPLNPRPLPPVVLMLLLLPPSPLPLAAGDPLPTESRLMNSCLOARRK 1 MGLSWSPRPPLLMILLLVLSLW-LPLGAGNSLATENRFVNSCTOARKK
hGFRa3	51 COADPTCSAAYHHLDSCTSSISTPLPSEEPSVPADCLEAAOOLRNSSLIG
mGFRa3	48 CEANPACKAAYOHLGSCTSSLSRPLPLEESAMSADCLEAAEOLRNSSLID
hGFRa3	101 CMCHRRMKNOVACLDIYWTVHRABSLGNYELDVSPYEDTVTSKPWKMNLS
mGFRa3	98 CRCHRRMKHQATCLDIYWTVHPARSLGDYELOVSPYEDTVTSKPWKMNLS

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GAMFRAL. Orf GIMFRAZ. Orf INA48613. Orf GIMFRAL. Orf	CANERAL.OLI CANERAL.OLE GANERAL.OLE	DNA48613.orf CINFRal.orf CINFRa2.orf	INVA48613.orf CINFRal.orf CINFRa2.orf	DVR48613.orf GINFRal.orf GINFRa2.orf	INM48613.orf CINFRA1.orf CINFRA2.orf

TTCTCCCA CAACCCCTGCTCACGGAGGCCATTGCAGCTAAGATGCGTTT

GCCTCCGGAACGCCATCCAGGCCTT

CCGAGAACCC

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CTTCTCCGACCCGCTTTGCAGATCACGCCTGGTGGATTTCCAGACCCACTCAACTCAACTCCACTCCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCCAACTCCAACTCCGGCTGCGACTTCCATGCCAATT
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                                             CTGCG
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E 1053 T CACAGCCAACT OTT CT C C CAGGACT GGC CACACC C C T A C C T T T G CT G T G A 1029 CT C C G A T G T G A C G T G T G G C C A G C C A G C C T T C C C A G T C C A C C A C T G T G C C A C C C A G G C C C T C G T T C C A C C A C C A G G G C C C T C G T T C C A G G G C C A C G A G G G C C A G G G C C A C C A G G G C C A C C A G G G C C A C C C A G G G C C A C C C A G G G C C A C C A G G G C C A C C A G G G C C C T C G T T C C A G G G C C A C C C A G G G C C A C C A G G G C C A C C A G G G C C A C C A G G G C C A C C C A C A C	rf 1103 Taachookockaakakakaccractataaaaacokaaccortaataacoc E 1079 CCACTACCACTGCCTCCGGGTTAAGAACAACCCCTGGGGCAGCA E 1124 CCCCTCGGGTGAAGACGCCTTCTTTGCCAGATGACCTCAGTGACAGT	rf 1133 TCT CTTTTCT CCT GCAC GCTT CCCTT GATTCT GCT CCTGAG CCTAT GGTA £ 1129 GGGT CTGAGAAT GAAATT CCCACT CAT GTTTTG CCAC CGTGT GCAAATTT £ 1174 ACCAG TTGG GGA CCAGTGT CATCAC CACCTG CACGTCT GTCCAGGAGCA	EF 1203 G	E 1229 TITTCCAATGGTAATTATGAAAAAGAAGGTCTCGGGTGCTTCCAGCCACATA E 1274 TCACGACAAATATCATCCCAGGGAGTAACAAGGTGATCAAACCTAACTCA	E 1279 A COACAAFAT CAAT GGCT GCT COT COT GT GT GGT CT GAG C CCACT GCT GCT GT GCT GT GCT GT	£ 1374 GATGCTGAAACAGGCTCTGTCCACCCTATTATCTTTAACAGAAACAT
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1 MVRPLNPRPLPPVVLMLLLLLPPSPLPLAAGDPLPTESRLMNSCLQARRK
DNA48613
         1 MFLAT . . . LYFAL . . PL LDL LLSA . . EVSGGD . . . . . RL . . DCVKASDQ
CONFRa1
         1 MIL ANV F CLEFFELDETLR SLASPS. . SLOGPEL H G WRPPV - · D C V RANEL
GDNFRa2
        51 COADPTCSAAYHHLDSCTSSISTPLP-SEEPSVPADCLEAAQOLRNSSLI
DNA48613
        36 CLKEQSCSTKYRTLRQCVAGKETNFSLASGLEAKDECRSAMEALKQKSLY
GDNFRa1
        47 CAAES NC SSRYRTLROCKAGRORN. . . . TMLANKE COAALEVLOESPLY
GDNFRa2
        100 GCMCHRRMKNQVACLDIYWTVHRARSLGNYELDVSPYEDTVTSKPWKMNL
DNA48613
        86 NCRCKRGMKKEKNCLRIYWSMYQSL. QQNDLLEDSPYEPVNSRLSDIFRV
GDNFRa1
        92 DCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTSRLSDIFRL
CONFRa2
        150 SKL..... NML KPOSOLCLK FAMLCTL NOKCORL RKA YGEACS....
DNA48613
        135 VPF IS - - VEH I - - PKGNNCLDAAKACNLDDICKKYRSAY ITPCTTS VS
GDNFRa1
        142 ASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISP
GDNFRa2
       188 GPHCORHVCLROLLTFFEKAAEPHAOGLLLCPCAPNDRGCGERRRNTIAP
DNA48613
        179 NOVCHRAKCHKALROFFDKYPAKHSYGMLFCSC - ROLLACTERRROTIVP
GDNFRa1
       192 TERCHARKCHKALROFFDRVPSEYTYRMLFCSC - QDQACAERRROTILP
GDNFRa2
       238 NCALPPVA - PNCLEL BRLCF SDPLC AS RLVD FQTHCHP- MDILGTCATEQ
DNA48613
        227 VCSYEEREKPNCLNLODSCKTNYICRSRLADFFTNCOPESRSVSSCLKEN
GDNFRa1
       240 SCSYEDKEKPNCLDL RGVCRTDHL CRSRLADFHANCRASYQTVTSCPADN
GDNFRa2
       286 - SRICLIRIA YILGE I GTIA MIT PNIFIVIS N V - N TIS VAL SICIT CRGS GNL QEECEMLE
DNA48613
       277 YADCLLAYSGLIGTVMTPNYIDSS - SLSVAPWCDCSNSGNOLEECLKFL
GDNFRa1
       290 YOACLGSYAGMIGFOMTPNYVDSSPTGIVVSPWCSCRGSGNMEEECEKFL
GDNFRa2
                                         . . . . . . . . . . . . . . . . KMRFHSQLFS
       333 GFFSHNPCLTEAIAA .....
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       325 NEFKONTCLKNAIQAFGNGSDVTVWQPAFPVQTTTATTTALRVKNKPLG
CDNFRa1
       340 R DET ENPELRINA I QAF GN GT D VN VS PK GPS FQAT QAPR V EKT PS L PD DL S
GDNFRa2
       358 Q . . . . . . D WP HP TFAV MAHONENPAVRPQ . . . . . . . . .
DNA48613
       375 PAGSENEIPTHVLPPCANLOAOKLKSNVSGNTHLCISNGNYEKEGLGASS
CONFRa1
       390 DSTS - . LGTSVITTCTSVOEQGLKANNSKELSMCFT - ELTTNIIPGSN
GDNFRa2
       381 . . . PWVPSLFSCTLPLILLSLW. . . . . .
DNA48613
       425 HITTKSMAAPPSCGLSPLLVLVVTALSTLLSLTETS
GDNFRa1
       435 KVIKPNSGPSRARPSAALTVLSVLMLKQAL.
GDNFRa2
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FIG. 6

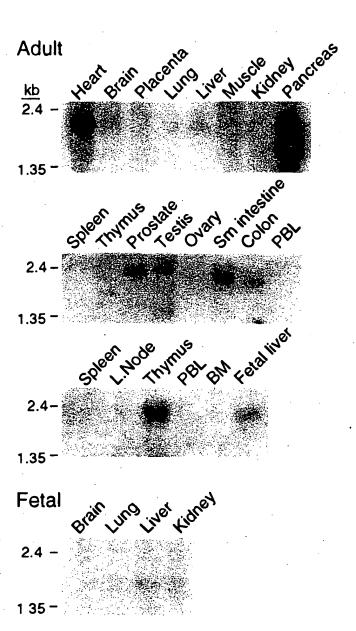
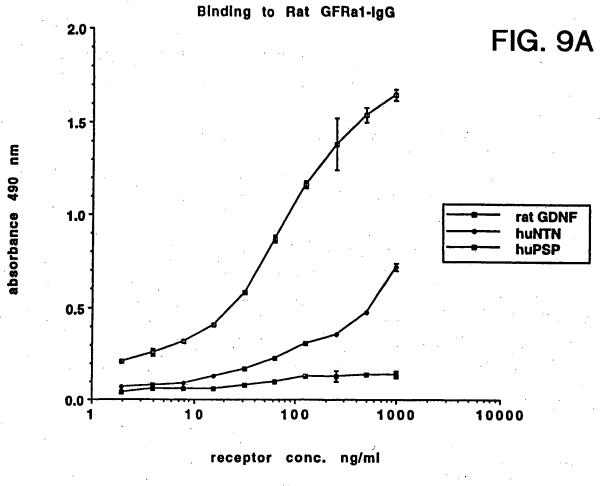
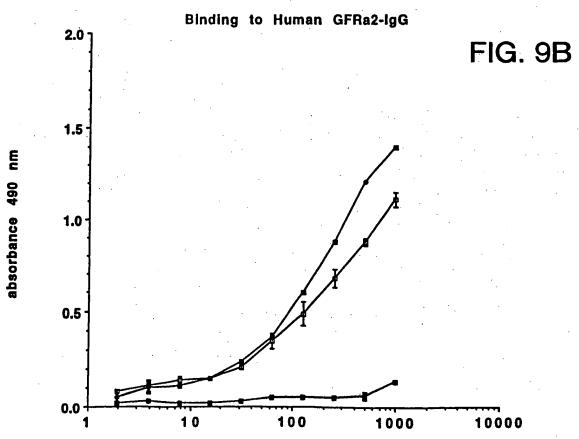
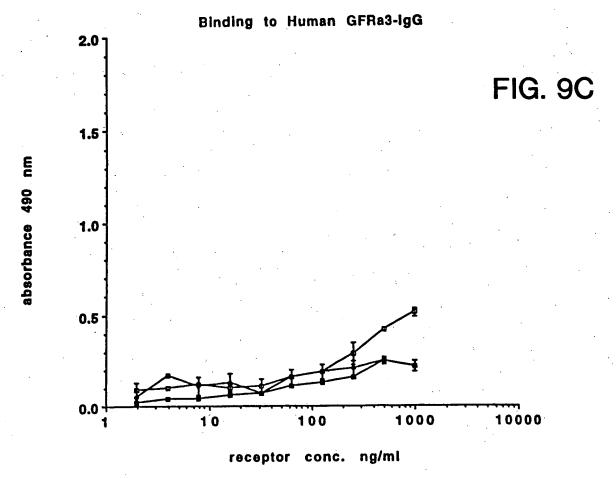


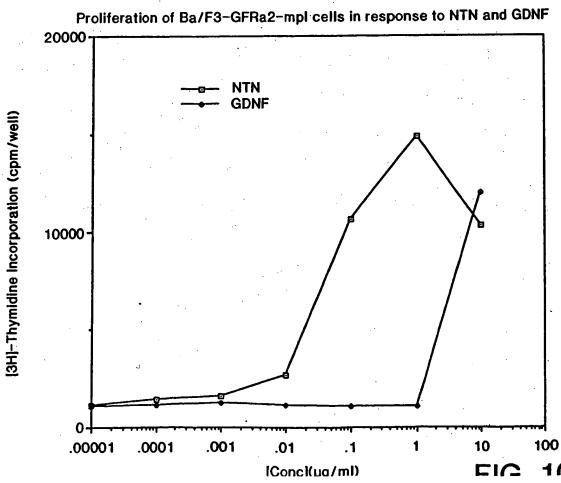
FIG. 7

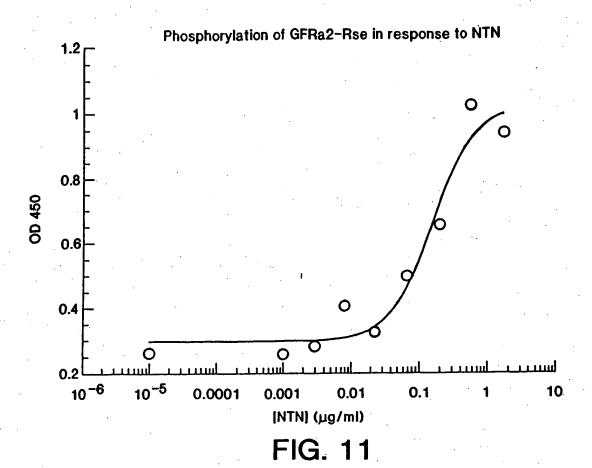


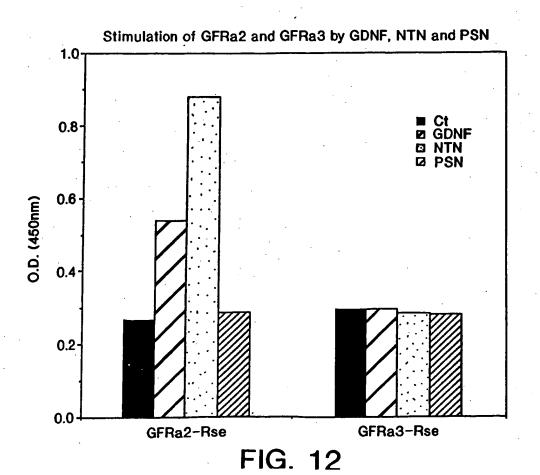












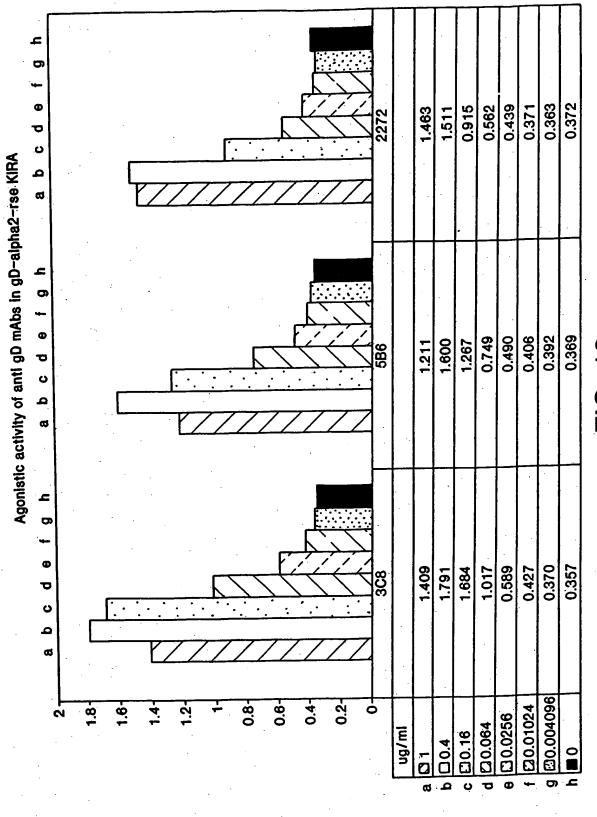


FIG. 13

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